

TECHNICAL TUESDAYS

TOPIC: Precautions to be taken during the application of silicones on textiles

REF: TT/ Feb 2016/ WK 1

Precautions:

If the silicone is more concentrated Pre-dilute the silicone by adding clean water slowly, while blending it gently.

Never use hot water above 50°C to dilute silicones.

Ensure a water pH of 5-6.5 in the tank before the addition of silicone emulsion.

pH adjustment Can be done using acetic acid or Organic acids.

Check the compatibility of the silicone emulsion with other auxiliaries before going for any combinations in bulk, as some cationic softeners tend to raise the pH to a level where the stability of the silicone emulsion gets affected severely.

After every finishing, do clean the machinery thoroughly before going for the next lot. As the silicones have the tendency to dry out and form a sticky mass on the metal and ebonite surfaces that may affect the subsequent finishing, thorough cleaning between different lots is mandatory.

Always keep the container closed and store the product in an area where there is no direct sunlight, as air and light may lead to rapid oxidation that could adversely affect the emulsion stability.

Use separate Container for silicones and do not mix up with other auxiliaries.

Try to take only the required quantity precisely. Avoid pouring back excess material into the container.

Hard water and chlorinated water must be strictly avoided in silicone finishing.

Keep the silicone emulsion container closed & Keep away from direct sunlight. Avoid exposure of Silicone emulsion to atmospheric air for a prolonged duration.

Wishing you a great week ahead!

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